

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

Claims 1-16 are cancelled.

17. (amended) A system for describing structure of programming languages, comprising:

- (a) first program code written in a high-level programming language, said first program code having first program elements;
- (b) second program code written in an extensible, object-oriented programming language for describing said first program elements in said first program code written in said high-level programming language; and
- (c) a programming tool for converting said object-oriented programming language.

18. (*original*) The system of claim 17, wherein copyright text, CCDoc directives, and compiler pragmas are automatically added to the system.

19. (*original*) The system of claim 17, wherein input and verification parameters are specified in said extensible and object-oriented descriptive programming language.

20. (*original*) The system of claim 17, wherein said programming tool is a compiler.

21. (*original*) The system of claim 17, wherein said programming tool is a translator.

22. (*original*) A method for describing computer programs by retaining meta-information about program elements, thereby allowing optimization and functionality on multiple hardware and software platforms, comprising the following steps:

- (a) creating a first program using a high-level programming language;
- (b) creating a second corresponding program using an extensible, object-oriented programming language to describe the high-level source code; and
- (c) converting the second corresponding program into a form of the high-level programming language.

23. (*original*) The method of claim 22, wherein the form is machine-executable.

24. (*original*) The method of claim 22, wherein the form is high-level programming language.

25. (*original*) The method of claim 22, wherein results of said step (a) and said step (b) are placed into one file, and further comprising the steps of:

- (d) copying said second corresponding program from the file; and
- (e) combining said second corresponding program with the form of the high-level source code.

26. (*original*) The method of claim 25, wherein the file is a header file.

27. (*original*) The method of claim 26, wherein the header file comprises the following sections:

- Definitions;
- User Preamble;
- User Pre-object;
- User Member;
- User Postobject; and
- User Postamble.